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Metropolitan Water Reclamation District of Greater Chicago

100 EAST ERIE STREET CHICAGO, ILLINOIS 60611 312 / 751-5600

CECIL LUE-HING
Director of Research & Development

September 5, 1990

Mr. Ed Marek
Acting Manager
Chicago Area Region
Field Operations Section
Illinois Environmental
Protection Agency
1701 First Avenue
Maywood, Illinois 60153

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Environmental Protection Agency
Division of Water Pollution Control
Permit Section-Springfield
State of Illinois

Dear Mr. Marek:

Subject: Progress Report for the 103rd and Doty
Closure Plan for July 1990

This letter transmits information and data for the month of July 1990 on the closure plan for the 103rd and Doty site.

Total amount of sludge delivered to the Doty site in July 1990 was 4,976 dry tons.

Total precipitation recorded for July 1990 at the site was 7.85 inches.

On July 20, 1990 five inches of rainfall was recorded at the site. Two retention ponds overflowed: One on the west side of the site overflowed into the Doty Avenue ditch; and one on the southeast corner of the site overflowed into the Stony Island ditch. Samples of these overflows were analyzed (Table 1). Surface runoff also left the site along the south boundary of the site and entered a wetland area between the site and Lake Calumet. A sample of this flow was collected, and analysis is presented in Table 2.

EPA Region 5 Records Ctr.



300949

Mr. Ed Marek


-2-

September 5, 1990

SUBJECT: Progress Report for the 103rd and Doty
Closure Plan for July 1990

Phase I construction activities in July 1990 included re-sloping the berm along Stony Island Avenue and applying clay cap, and initial fill and grading work for construction of the south boundary berm.

Very truly yours,



Cecil Lue-Hing, D.Sc., P.E.
Director
Research and Development

CLH:JG:ns

Attachments

cc/att: Chappel (IEPA)
Keller (IEPA)
Rogers (IEPA)
Gould (IEPA)
DiVita/Knight/Murray
Neubauer/Hall

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TABLE 1

ANALYSIS OF RETENTION POND OVERFLOWS WHICH ENTERED THE
STONY ISLAND AVENUE AND DOTY AVENUE DITCHES ON
JULY 20, 1990

Constituent*	Overflow Into	
	Stony Island Ditch	Doty Ditch
pH units	7.1	7.0
Electrical Conductivity, mS/m	177	220
BOD	40	40
Total P	2.68	4.11
TKN	113	88.9
NH ₃ -N	38.3	74.8
NO ₂ +NO ₃ -N	12.0	20.3
Total Dissolved Solids	1816	2206
Cyanide	0.066	0.087
Phenol	0.096	0.084
B	0.24	0.25
Cd	<0.02	0.03
Cr	0.06	0.10
Cu	0.08	0.12
Fe	2.0	1.6
Pb	0.05	0.04
Mn	0.51	0.47
Ni	<0.1	<0.1
Ag	<0.002	0.004
Zn	<0.1	0.4

*Mg/L, except as noted.

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TABLE 2

ANALYSIS OF SURFACE RUNOFF FROM THE SOUTH PART OF THE 103rd
AND DOTY AVENUE LANDFILL SITE WHICH FLOWED INTO A WETLANDS
AREA ON JULY 20, 1990

Constituent	Concentration*
pH units	6.7
Electrical Conductivity, mS/m	235
BOD	60
Total P	16.5
TKN	57.9
NH ₃ -N	25.8
NO ₂ +NO ₃ -N	28.4
Total Dissolved Solids	2716
Cyanide	0.108
Phenol	0.176
B	0.58
Cd	0.05
Cr	0.20
Cu	0.34
Fe	5.3
Pb	0.34
Mn	0.94
Ni	0.3
Ag	0.003
Zn	0.9

*Mg/L, except as noted.

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